

GeoGebra



Website: <http://www.geogebra.org/cms/en/>

Description: GeoGebra is a free, multi-platform online tool that lets students visualize mathematical concepts. It is an interactive geometry, algebra, statistics and calculus software that can be used from elementary school through university. The software is available for desktops (Chrome, Windows, Mac OS X, and Ubuntu, Debian (.deb) openSUSE, Fedora (.rpm), Other Unix) as well as for tablets. In addition to the software, the website contains thousands of free, searchable materials created by other users. There is also a [Help](#) page which offers a manual, tutorials, tips and a forum.

How to Use the Resource:

Teachers:

1. The tool can be downloaded for free and used to create your own worksheet or interactive activity.
2. The website can be searched for worksheets and activities that other users have created.
3. Users can sign as members for free and receive free email updates and tips. Members also have access to the forum where they can pose questions to other members.

Students:

1. The tool can be used to explore math concepts. For example, functions can be graphed and explored.
2. The students can do assignments based on prepared worksheets or activities.

Why This Resource is Useful:

- 1) **Free, user friendly and interactive graphical user interface.** GeoGebra is free to [download](#). User can [customize GeoGebra](#) menu bar, toolbar and working platform (such as the algebra window, drawing pad and input window). They can save these and other preference settings. Resource is very interactive and has fancy graphical user interface which teachers and students could easily learn how to use.
- 2) **Create, Share and Access Materials.** GeoGebra is useful for teachers to create dynamic worksheet so that students can interact with it to do assignments on a webpage. Teacher can share and has access to free classroom materials and worksheets at <http://www.geogebraTube.org>. The students work can be saved, shares and/or exported for use in other assignments.

- 3) **Customize Materials.** The dynamic worksheet applet can be programmed to respond to students' answers. For example the teacher can add in comment such as "good job" or "try again" and etc.
- 4) **Multiple Languages.** The GeoGebra supports multiple languages like French, Chinese, German, Spanish and etc. which would be helpful for ESL students.
- 5) **GeoGebra Supports.** The resource has tons of user supports from the [GeoGebra forum](#), [blog](#), [wiki](#), [YouTube](#) and [online tutorials](#) which provides very useful math resource and lots of educational advantage for teachers and students to incorporate it into their mathematics learning explorations.